

IN THE CLAIMS:

Please cancel claims 22-25, 42, 45, 47, 56, 68-69, 73-75, 79, 80 and 81 and amend the claims as follows:

1. (Currently Amended) A method of expanding tubing, the method comprising:
 - locating an expansion device in tubing to be expanded;
 - creating a vibration with fluid flowing through at least one of the expansion device and the tubing;
 - vibrating at least one of the tubing and the expansion device; and
 - translating the expansion device relative to the tubing.
2. (Currently Amended) The method of claim 1, wherein ~~the nature of the~~ vibration of at least one of the tubing and the expansion device is selected to reduce friction between the tubing and the device.
3. (Original) The method of claim 2, wherein the vibration of at least one of the expansion device and the tubing is selected to substantially avoid static friction between contacting surfaces of the expansion device and the tubing.
4. (Original) The method of claim 1, wherein a driving force is applied to translate the expansion device through the tubing.
5. (Original) The method of claim 4, wherein the driving force remains substantially constant as the expansion device is translated through the tubing.
6. (Currently Amended) The method of claim 1, wherein ~~[[the]]~~ a direction of the vibration includes an element selected from at least one of: random, multi-directional, axial, transverse and rotational.

7. (Original) The method of claim 1, wherein at least a major portion of the expansion device is subject to vibration.
8. (Original) The method of claim 1, wherein only a selected portion of the expansion device is subject to vibration.
9. (Original) The method of claim 8, wherein a surface portion of the device is subject to vibration.
10. (Original) The method of claim 1, wherein portions of the expansion device experience different forms of vibration.
11. (Original) The method of claim 1, wherein at least a substantial portion of the tubing is vibrated.
12. (Original) The method of claim 1, wherein only a selected portion of the tubing is vibrated.
13. (Original) The method of claim 12, wherein a portion of the tubing adjacent the expansion device is vibrated.
14. (Original) The method of claim 12, wherein a surface portion of the tubing is vibrated.
15. (Original) The method of claim 1, wherein the vibration induces physical movement of at least one of the expansion device and tubing.
16. (Original) The method of claim 1, wherein the vibration induces contraction and expansion of at least a portion of at least one of the expansion device and the tubing.

17. (Original) The method of claim 1, wherein the vibration takes the form of at least one wave traveling through at least one of the expansion device and the tubing.
18. (Original) The method of claim 1, wherein the vibration is created locally relative to the tubing being expanded.
19. (Original) The method of claim 1, wherein the vibration is created remotely of a tubing expansion location, and travels to the expansion location.
20. (Original) The method of claim 1, comprising creating the vibration with a moving mass.
21. (Currently Amended) The method of claim 1, comprising ~~creating the vibration by providing a varying restriction to fluid flowing~~ through at least one of the expansion device and the tubing.
- 22-25. (Cancelled)
26. (Original) The method of claim 1, comprising coupling a source of vibration to at least one of the expansion device and the tubing.
27. (Original) The method of claim 26, comprising directly coupling a source of vibration to at least one of the expansion device and the tubing.
28. (Original) The method of claim 26, comprising indirectly coupling a source of vibration to at least one of the expansion device and the tubing.
29. (Currently Amended) The method of claim 1, wherein ~~[[the]]~~ an amplitude of the vibration is selected from at least one of constant, varying and random amplitude.

30. (Currently Amended) The method of claim 1, wherein ~~[[the]]~~ a frequency of the vibration is selected from at least one of constant, varying and random frequency.
31. (Currently Amended) The method of claim 1, wherein ~~[[the]]~~ a form of the vibration is selected from at least one of constant, varying and random form.
32. (Original) The method of claim 1, wherein the vibration is of high frequency.
33. (Original) The method of claim 32, wherein the vibration is ultrasonic.
34. (Currently Amended) The method of claim 1, wherein ~~[[the]]~~ a form of the vibration is selected such that the vibration is not apparent as physical movement.
35. (Original) The method of claim 1, wherein the vibration is induced electromagnetically.
36. (Original) The method of claim 1, wherein the vibration is of relatively low frequency.
37. (Currently Amended) The method of claim 36, wherein the vibration is in ~~[[the]]~~ a range of 1 to 100 Hz.
38. (Original) The method of claim 1, wherein the vibration comprises a plurality of different components.
39. (Original) The method of claim 38, wherein the vibration comprises a low frequency component and a high frequency component.
40. (Original) The method of claim 1, wherein the vibration is selected to coincide with a natural frequency of at least one of the expansion device and the tubing.

41. (Original) The method of claim 1, wherein the vibration is selected to avoid a natural frequency of at least one of the expansion device and the tubing.
42. (Cancelled).
43. (Original) The method of claim 1, comprising applying a mechanical driving force to translate the expansion device relative to the tubing.
44. (Currently Amended) The method of claim 43, wherein the mechanical driving force comprises at least one of a pulling, pushing and torsional force.
45. (Cancelled)
46. (Original) The method of claim 1, wherein the expansion device is in sliding contact with the tubing.
47. (Cancelled)
48. (Original) The method of claim 1, wherein the expansion device is translated axially relative to the tubing.
49. (Original) The method of claim 1, wherein the expansion device is translated rotationally relative to the tubing.
50. (Original) The method of claim 1, comprising expanding the tubing by creating localized compressive yield in the tubing wall.
51. (Currently Amended) The method of claim 1, comprising varying [[the]] a diameter of the expansion device.

52. (Original) The method of claim 1, further comprising creating a pressure differential across a wall of the tubing.

53. (Original) The method of claim 52, wherein the pressure differential applied across the tubing wall is varied.

54. (Original) The method of claim 53, wherein the pressure differential is cycled.

55. (Original) The method of claim 1, comprising isolating a volume of fluid containing the expansion device.

56. (Cancelled)

57. (Currently Amended) Apparatus for expanding a tubing, the apparatus comprising:

an expansion device; and

means a vibration device for vibrating at least one of the tubing and the expansion device; and

a pressure device for creating a fluid pressure differential across a tubing wall adjacent the expansion device.

58. (Currently Amended) The apparatus of claim 57, further comprising a translating device ~~means~~ for translating the expansion device relative to the tubing.

59. (Currently Amended) The apparatus of claim 57, wherein the vibration device ~~vibrating means~~ is operable to reduce friction between the tubing and the expansion device.

60. (Currently Amended) The apparatus of claim 57, wherein the vibration device ~~vibrating means~~ is operable to avoid static friction between contacting surfaces of the tubing and the expansion device.

61. (Currently Amended) The apparatus of claim 57, wherein the vibration device ~~vibrating means~~ is operable to vibrate at least a major portion of at least one of the device and the tubing.

62. (Currently Amended) The apparatus of claim 57, wherein the vibration device ~~vibrating means~~ is operable to vibrate a selected portion of at least one of the expansion device and the tubing.

63. (Currently Amended) The apparatus of claim 57, wherein the vibration device ~~vibrating means~~ comprises at least one of: a movable mass; a variable fluid flow path through at least one of the expansion device and tubing; an electromagnetic oscillator; means for varying the pressure of fluid operatively associated with at least one of the device and tubing; means for creating pressure pulses in a fluid; and means for injecting a fluid into fluid operatively associated with at least one of the expansion device and the tubing.

64. (Currently Amended) The apparatus of claim 57, wherein the vibration device ~~vibrating means~~ is directly coupled to at least one of the expansion device and the tubing.

65. (Currently Amended) The apparatus of claim 57, wherein the vibration device ~~vibrating means~~ is indirectly coupled to at least one of the expansion device and the tubing.

66. (Original) The apparatus of claim 57, wherein the expansion device comprises an expansion cone.

67. (Original) The apparatus of claim 66, wherein the expansion cone is adapted for sliding contact with the tubing.

68-69. (Cancelled)

70. (Original) The apparatus of claim 57, wherein the expansion device defines a fixed expansion diameter.

71. (Original) The apparatus of claim 57, wherein the expansion device comprises a variable expansion diameter.

72. (Original) The apparatus of claim 57, wherein the expansion device is compliant.

73-75. (Cancelled).

76. (Currently Amended) The apparatus of claim [[75]] 90, wherein said isolating means comprises at least one seal.

77. (Original) The apparatus of claim 76, where the seal comprises a plurality of seal members.

78. (Currently Amended) The apparatus of claim 76 [[or 77]], wherein said seal is adapted to permit a degree of leakage thereacross.

79-81. (Cancelled).

Please add the following new claims:

82. (New) A method of expanding tubing, the method comprising:
locating an expansion device in tubing to be expanded;
vibrating at least one of the tubing and the expansion device;
translating the expansion device relative to the tubing; and
creating the vibration with an electromagnetic oscillator.

83. (New) A method of expanding tubing, the method comprising:
locating an expansion device in tubing to be expanded;
vibrating at least one of the tubing and the expansion device;
translating the expansion device relative to the tubing; and
creating the vibration by varying a pressure of fluid operatively associated with at least one of the device and the tubing.
84. (New) A method of expanding tubing, the method comprising:
locating an expansion device in tubing to be expanded;
vibrating at least one of the tubing and the expansion device;
translating the expansion device relative to the tubing; and
creating the vibration by creating pressure pulses in a fluid operatively associated with at least one of the device and the tubing.
85. (New) A method of expanding tubing, the method comprising:
locating an expansion device in tubing to be expanded;
vibrating at least one of the tubing and the expansion device;
translating the expansion device relative to the tubing; and
applying a fluid pressure driving force to translate the expansion device relative to the tubing.
86. (New) A method of expanding tubing, the method comprising:
locating an expansion device in tubing to be expanded, wherein the expansion device is in rolling contact with the tubing;
vibrating at least one of the tubing and the expansion device; and
translating the expansion device relative to the tubing.
87. (New) Apparatus for expanding tubing, the apparatus comprising:
an expansion device; and

means for vibrating at least one of the tubing and the expansion device, wherein the expansion device comprises an expansion cone adapted for rolling contact with the tubing.

88. (New) Apparatus for expanding tubing, the apparatus comprising:
an expansion device; and

means for vibrating at least one of the tubing and the expansion device, wherein expansion device comprises a rotary expander.

89. (New) Apparatus for expanding tubing, the apparatus comprising:
an expansion device;

means for vibrating at least one of the tubing and the expansion device; and
means for isolating a volume of fluid containing the expansion device.